

THE
OUTCROP

—15—
\$2 a Year
—17—
ADVANCE AND
\$2.00
TO PEOPLE
WORTHY OF
CREDIT.

THE OUTCROP.

Devoted to the Mining and Development of the Windermere and Golden Divisions of the District of North East Kootenay.

The
Paystreak
of
Advs.
never pinches
out in this
Paper.

Try one
before the
space is all
staked
out.

Book V., Chapter 44.

Wilmer, B. C., Thursday, March 30, 1905.

\$2.00 Per Year.

DISTRICT CROPPINGS

Gardening has now started throughout the valley in earnest and it is to be hoped the keen competition of former years will obtain. The idea of each person endeavoring to have his garden just a little better than his neighbor is to be commended. It is the best possible thing for the country as it brings the resources of this fertile valley to the front as nothing else can. A little rivalry in this direction can do no harm and is certain to do much good. Each year some new variety of grain, fruit and vegetable is being tried by our enterprising gardeners attended with more or less success. True, most of these attempts are on a small scale, but, nevertheless, they are just what is most needed in a new country, and already we have seen the benefits derived therefrom. So let us encourage the enterprise and the rivalry.

The 1905 Dominion Exhibition is being held at New Westminster from Sept. 27 to Oct. 7 and already preparations are well under way. This will be one of the best advertisements British Columbia has ever had and it should be seen that North East Kootenay is well represented there. Some united effort should be made in this direction at an early date.

Mrs. G. Rehder, who has been quite ill, is now much improved.

It is intimated that in the near future some very important news will be given out with regard to the active working of some of the mines in this vicinity.

G. A. Starke is showing considerable enterprise with his waterworks system. He not only supplies his private house and the Hotel Delphine, but he has now put in a hydrant opposite the telegraph office and is supplying private houses with water at 50 cents a month, which is a great boon.

It is reported that Steve Wilson is in a Seattle hospital and is not likely to recover. It appears he got mixed up in a free fight in that city some months ago and was badly cut up with a knife. Since then his wounds have broken out afresh with other complications and his life is despaired of. Steve is well known throughout this valley, having spent several years here mining.

The high north winds of last week blew the floating ice on Windermere lake so hard against the shore that it broke a large hole in the side of the steamer Ptarmigan, which has been tied up all winter near Sunshine ranch. The work of repairing the steamer is already under way and by the time this is accomplished navigation will be opened for the season, as the ice in the river is now almost gone all the way to Golden.

Premier McBride Quite Right

Mr. Morse, general manager of the Grand Trunk Pacific, has left British Columbia very, very "hot" for a colder climate east of the Rockies. No doubt Mr. Morse had been reading some of the B. C. staunch Liberal newspapers that have been telling their readers how "easy" Premier McBride is and his Government. Anyway Mr. Morse had that idea, but he ran up against a "snag"—worse than any yet discovered in the Columbia river. Although the G.T.P. has to build through B. C. in five years Mr. Morse thought he could get the McBride administration to give his company 15,000 acres of land per mile in return for promising to commence construction at the west end at once. But poor Mr. Morse was out of luck and he found that the McBride administration was not quite so "easy" as the Liberal papers pictured. "Dicky" McBride sang him a sweet song that made him so "warm" that even the damp climate of the Coast could not cool Mr. Morse off. Mr. Morse has gone away very much in disgust to find that B. C. at last has an administration that will not give away her land—not even a few million acres that his poor company so much needed. However, the McBride Government is being congratulated for taking its stand by the electors and even the Liberal papers have had to admit that for once

the Conservatives have acted wisely. The Outcrop takes pleasure in congratulating the McBride administration in setting an example that has long been wanting in this province.

John Houston has given notice that he will move a motion in the Legislature, which in part reads: "Therefore, be it resolved, that this House declares the province of British Columbia should issue 30,000,000 acres of land scrip, carrying with it the right of location on any of the crown lands which are unoccupied, and the right to everything that is in the land or on it; it should be issued in denominations of 40, 80, 160, 320 and 640 acres, at the uniform price of \$1 per acre; the proceeds to be used (1) in paying off the provincial debt; (2) providing a school fund; (3) aiding the construction of railways; (4) constructing a system of irrigation canals in the semi-arid districts and in building trunk wagon roads." John is always ready to spring some radical change, but this one has some good merits and may be useful in bringing about a scheme whereby the province may benefit by its great natural resources.

The Revelstoke Herald has a letter from Victoria, signed by "The Man in the Gallery" and the Herald should see

that such an ignorant Man never leaves the Gallery, unless it be over the railing of it with a good stout cord so arranged that he can never more "knock" this fertile valley. This Man(?) writing on railway matters says: "For instance, not a few of these railway projects—good enough schemes for development had the province a large bank account—traverse in the main districts very thinly, if at all, populated. Of such are, say, the Kootenay Central and a large portion of the Grand Trunk Pacific." This Man in the Gallery evidently is very fond of "knocking", and the only fault he can find is "thinly populated". He should know that there are settlers here who have been waiting more than 20 years and that the resources of this valley have been developed to the stage where railway connection is the one thing necessary to great population. Herald, call off your "gallery knocker."

Lance Bulman arrived on Monday's stage from Golden to take charge of the Wilmer telegraph office during the absence of Agent R. A. Power.

There has been a great bombardment of stumps about Wilmer the past few days by Messrs. G. A. Starke and R. R. Bruce, who are clearing more land for garden purposes.

The sale of Wilmer town lots have increased lately, a number being effected. One man on Friday purchased a block comprising eight lots near the Court House and is negotiating for more.

RIFE MEETING

The meeting of the Wilmer Rifle Association held last week was attended by a large number of members. Wm. P. Evans was duly elected chairman of the meeting and John McLeod secretary. The secretary's report of the Association for the first year was read and adopted by the meeting with a hearty vote of thanks tendered Sec. Treas. J. McLeod. The report showed there were 58 members and that after clearing the grounds at the range, building stations, target, etc., the Association was in debt only \$20.02, which was considered very satisfactory, it being pointed out that in future the expenses would be small as compared with the first cost of getting started. The election of officers for the ensuing year was next taken up. Dr. R. Elliot was unanimously re-elected captain and J. McLeod re-elected secretary-treasurer. Messrs. Wm. Chamberlain, G. A. Starke and Wm. P. Evans were elected a managing committee to act with the other officers. This committee was instructed to draft a set of by laws to be submitted to the Association for endorsement at a special meeting. There being no further business the meeting adjourned.

Bridge Whist players should get a copy of "The Complete Bridge Scoring Book", at A. R. Yates' Drug Store.

COME HOME FATHER

Father, dear father, come home with me
now,
For mother is out to the club;
You said you were coming right home
from your work
To get the dear children some grub.
The cook has gone out; her club also
meets;
The janitor's gone on a spree;
And poor brother Bennie has swallowed
a nail,
And no one to help him but me.

Father, dear father come home with me
now,
There's scrubbing and sweeping to do;
While mother is solving the problems of
state
The children are crying for you.
The socks must be darned; the patches
tacked on,
The beds must be turned back to air;
And mother's shirtwaist must be ironed
tonight
Or she will have nothing to wear.

Father, dear father, come home with me
now;
It's lonely without any man;
And mother will grieve when she comes
from the club
If things are not fixed, speck and span.
Don't swear, dear papa, it isn't polite;
The children in hearing might be;
So let business slide, for dear mother you
know,
Might bring home a few friends to tea.
Dreamer, in Cranbrook Herald.

Seven years ago today the Cranbrook
Herald issued its first number. Then
there were no business houses here, two
hotels, a blacksmith shop and a livery
stable. The town has grown and the
Herald has grown. Both will grow con-
siderably more in the next few years.—
Herald. Success to "The Old Man" and
the town he has materially helped to
build.

LAND NOTICE

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase eighty acres of land. Commencing
at a post on the north side of Toby creek, about
100 chains below Jumbo Fork; thence north
40 chains, thence east 40 chains, thence south
40 chains, thence west 40 chains to the place of
commencement.
Dated 20th December, 1904. M. CARLIN.

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase 40 acres of land. Commencing at a
post south of Toby creek and on the east line
of M. Carlin's application; thence north 20
chains, thence east 20 chains, thence south 20
chains, thence west 20 chains to place of com-
mencement.
Dated 20th December, 1904. H. W. HARRISON.

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase 40 acres of land. Commencing at a
post on the north side of Toby creek, about
one-half mile below Jumbo Fork; thence north
20 chains, thence east 20 chains, thence south
20 chains, thence west 20 chains to the place of
commencement.
Dated 20th December, 1904. F. W. JONES.

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase 56 acres of land, more or less. Com-
mencing at a post on the north side of Toby
creek, and on the east line of F. W. Jones' ap-
plication; thence north 20 chains, thence east
40 chains, thence south 40 chains, thence west
40 chains, thence west 40 chains to place of com-
mencement.
Dated 20th December, 1904. J. F. HANNA.



Anyone sending a sketch and description may
quickly ascertain our opinion free whether an
invention is probably patentable. Communi-
cations strictly confidential. Handbook on Patents
sent free. Oldest agency for securing patents.
Patents taken through Munn & Co. receive
special notice, without charge, in the
Scientific American.
A handsomely illustrated weekly. Largest cir-
culation of any scientific journal. Terms, \$3 a
year; four months, \$1. Sold by all newsdealers.
MUNN & CO. 36 Broadway, New York
Branch Office, 225 St. Washington, D. C.

W. L. HOUSTON,
Undertaker.

Coffins and Caskets always on hand.

Sash & Door Factory and
Machine Shop.

Engine and Boiler Repairing a Specialty.

GOLDEN, B. C.

**Canadian
Pacific
Railway**

Trains pass Golden:

Eastbound	11:30
Westbound	11:25

Steamers leave Golden for the Wind-
ermere at 4 a.m. Tuesdays and Fridays,
returning Wednesdays and Saturdays.

Stage for Windermere District leaves
Golden at 8 o'clock Sundays and arrives
in Golden at 15:30 on Fridays. Leaving
Windermere every Thursday at 8 a.m.
and arriving Monday at 17 p.m.

Passengers booked to all Eastern Can-
adian and United States points.

Berths reserved on Atlantic steamers
for passengers to the Old Country.

Direct steamer service from Vancouver
to
**China, Japan,
Australia, Alaska**

Full information and illustrated Pam-
phlet furnished on Application.

C. E. WELLS, Agent, Golden, B.C.	E. J. COYLE, A.G.P.A., Vancouver
--	--

Printing.
"That's Our Business"

The Job Department of the The Outcrop is fully
equipped to turn out the best quality of Stationery for
any kind of business. Special attention paid to work
for mines. Stock, the best; quality, the highest grade.

ADDRESS,

The Outcrop.

The W. M. Co.

**A SPRING SUIT
IS
SEASONABLE**

We have Newest Patterns
and will make you a suit that
will satisfy in

**PRICE,
FIT,
APPEARANCE.**

**Wilmer
Mercantile
Company,**

GEO. REHDER. - - Manager.

Description of Windermere District

It is only within the last few years that the potentialities of this beautiful and fertile valley have become known. Since then its development has been marked.

Miners and prospectors, attracted by its mineral wealth, have spread their knowledge of the fertility of its soil and admirable climate, resulting in a steady growth of population.

SITUATION

The Windermere district is situated at the head waters of the great Columbia river, about 80 miles south of Golden, an important station on the Canadian Pacific Railway.

The Columbia has its origin in two lakes, known as the Upper Columbia and Lower Columbia, and it is from the presence of these lakes, and the magnificent mountain scenery that surrounds them and their similarity to those in the famous district in England that this was christened the Windermere district.

The lower lake is a beautiful sheet of water, about 17 miles in length by a mile in width, and forms a particularly attractive feature of the valley. Its placid waters for boating and canoeing, its gently sloping shores, dotted with fir and clumps of spruce and poplar, looking, for all the world, like a well-kept ancestral park, renders it an ideal summer resort.

ACCESSIBILITY.

The Columbia river flows from its source as a broad, placid stream, and the steamer Ptarmigan, comfortably fitted with dining and staterooms, plies bi-weekly during the summer and till the river freezes in the fall, from Golden to Windermere, a distance of about 100, leaving Golden on Tuesdays and Fridays, and returning Wednesdays and Sundays.

The trip up the river is a never-to-be-forgotten one, replete as it is with the most wonderful mountain and forest scenery that imagination can depict, ever changing and ever varying for the full 100 miles, until it ends in the grand climax as towards the close of the day the Ptarmigan softly glides, amidst the fast gathering shadows, into the blue waters of Windermere lake.

An excellent government wagon road extends from Golden to Windermere and from there to Fort Steele. A mail and passenger stage runs all the year round, leaving Golden Sundays a.m. and arriving at Wilmer and Windermere on Monday night, returning Thursday and arriving Friday. Another stage plys between Wilmer and Cranbrook on the Crow's Nest Pass Railway.

GENERAL DESCRIPTION.

After leaving Golden and for the first 50 miles the valley is comparatively narrow, but on the bench-land immediately adjoining the river comfortable farm houses and barns, hewn of logs are to be seen dotted along the river banks, giving a warm and home-like aspect to the scene. Behind, to the east, tower the jagged snow-capped Rocky mountains; whilst on the west the fascinating Selkirk, with their hidden treasures of gold and silver, and copper and lead, stand boldly out as if tempting exploration by the venturesome that would seek wealth quickly.

Some 60 miles south or at Sinclair postoffice the valley assumes wider proportions, the foot-hills on the Selkirk side receding in the form of a bay, and leaving an undulated bench-land country some five or six miles deep, and extending up the valley for some 30 miles. This bench-land is from 200 to 300 feet higher than the bottom lands of the Columbia river and keeps on gently rising to the west until it gradually merges into the foot-hills.

The bench-land is lightly timbered forming a fine open and park-like country, with numerous small lakes fed from springs and streams from the mountains. Most of this land is suitable for agricultural purposes or for grazing, where it is badly broken by ravines.

RESOURCES.

Generally speaking there are three prospective sources of wealth in this fair valley, viz.:—its agriculture, its mines and its forests, all of which are as yet in the initial stage.

Agriculture.

Cereals—the valley generally is well suited for the raising of all grain crops, and heavy yields are obtained where the soil is well cultivated and irrigated. All cultivated land has to be irrigated more or less. Settlers so far have put in and own their irrigation ditches, obtaining the water either from the numerous small lakes or from the various mountain creeks. No doubt that as soon as the population justifies it, a more general and comprehensive scheme will be carried out by taking sufficient water from one of the various mountain rivers, carrying it along the base of the foot-hills so as to irrigate all the bench-land lying between there and the Columbia river.

Cattle.

The climate being mild and the ranges covered with a luxuriant growth of grass, do very well and produce the best of beef. The snow-fall being light the cattle are able to winter out, but have to be looked after in cold spells to prevent loss. Cows and calves, of course, ought to be well looked after, and a limited amount of feed is put up by each careful rancher to provide against emergencies. Cattle ranching is at present a most profitable and flourishing industry.

Vegetables.

Vegetables of all kinds grow in great luxuriance, and on account of the earlier spring they come into season from a week to two weeks ahead of the prairie.

Small Fruits.

Such small fruits as straw berries, rasp berries, currants and gooseberries are native, being found in quantities growing wild in the hills and bench-lands, and naturally the cultivated garden varieties do uncommonly well, yielding fine crops of big luscious berries.

Apples.

Within the last few years a number of the more progressive settlers have tried apple trees and many of these coming into crop last year have yielded so abundantly that many hundreds of trees will be planted next spring. Several orchards are now under way on a large scale, and judging from the excellence of the fruit so far produced in the valley this most attractive industry promises to be a great and profitable business in the valley in the near future.

Speaking of apple culture Mr. S. Brewer, of Fairmont Hot Springs, near the Upper Columbia lake, who is the pioneer settler of the valley, said:

"In another few years we will see every available patch of ground planted in orchards, and I believe fruit will be produced here in large quantities, and the market is at hand. I have grown fruit in this valley for about 12 years and have never had a failure. So I think that 12 successful crops of apples justifies me saying that this is a good fruit country."

MINERAL WEALTH.

Numerous mineral claims back of the bench lands have been located in the Selkirk, on excellent outcrops, principally of lead and copper ores, carrying gold and silver. Within the last few years this has developed into a permanent and important industry. Several mines have been opened up and brought into the producing stage amongst which might be mentioned the Paradise, with over a mile of underground workings; the Ptarmigan, with a similar amount and equipped with a tramway and compressor; the Delphine, with its high grade ore, and a number of others such as the B. C., the Tecumseh, the Charlemont, the Bunyan and the Lead Queen, which have made shipments to the smelters. Excellent wagon roads have recently been built connecting the various mines with the landing at Wilmer on the Columbia river, and at present the ore is shipped from this point to the smelters in West Kootenay. Not only do these mines when working full force employ a large number of men in the aggregate, but they also create a good local market for farm produce.

TIMBER WEALTH.

Along the various creeks that drain the Selkirk and are tributary to the

A Complete Stock

**Lumbermen's
Rubbers,
Manitoba Snow Excluders,
Ideals and German Sox.**

**Mackinaws,
Underwear,
Sweaters,**

**In fact Everything a Man
wants to Wear.**

DRY GOODS:

**Vellvateens, Silks, Laces, Miltons,
Halifax Tweeds, Ladies and Children's
Combination Suits.**

Carload of Fresh Groceries.

**Eggs, Butter, Cheese,
Hams, Bacon,
Etc., Etc.**

**The
Peterborough
Trading Co.**

WILMER,

B. C.

Imperial Bank of Canada.

CAPITAL (Paid-up), - \$3,000,000
RESERVE ACCOUNT, - \$3,000,000

T. R. MERRITT, President, D. R. WILKIE, Vice-Pres. and Gen. Mgr.

SAVINGS BANK.

Interest allowed on deposits at current rates from date of opening of account and credited half-yearly.

DRAFTS bought and sold.

SPECIAL Attention given to the Up-Country Business.

GOLDEN BRANCH,
A. B. McLENEGHAN,
Manager.

HUGH MACDONALD,

BARRISTER,
SOLICITOR,
NOTARY PUBLIC.

WILMER,
North East Kootenay, British Columbia

ROBERT ELLIOT, M.D.

PHYSICIAN AND
SURGEON.

WILMER,
East Kootenay, British Columbia.

Union Hotel, Wilmer, B. C.

This pioneer hotel has recently been painted and renovated into an up-to-date hostelry. Miners, tourists and all classes of this world's people can always get a square meal and an easy bed within the portals of my doors. The bar contains many kinds of nerve bracers, ranging from gentle old rye to the tippie that foams in the glass. If you are dry, hungry, weary or sad when you reach Wilmer, lift the latch and drop in.

Wm.
CHAMBERLAIN,
Proprietor,

Description of Windermere District

Columbia, such for instance as No. 2 and 3, Horse Thief, Toby and Dutch, there are many millions of feet of timber suitable for the making into lumber and ties. Attention has recently been paid to this district and to this industry, with the result that there are now two saw mills and several logging camps in operation. The settler can thus obtain all that he requires for building, locally, and further these camps also furnish an additional market for farm produce.

CLIMATE.

The climate is mild and dry. There are occasional cold snaps during the winter, but they are promptly followed by the warm chinook wind. Snow in the valley never exceeds a few inches in depth.

TOWNS.

Central to the tract of land that stretches from Sinclair postoffice to the head of the Columbia lake, there are several towns such as Wilmer, Athalmer and Canterbury on the west side of the river and Windermere on the east side. These have good stores, hotels, churches and schools.

Wilmer is situated on the benchland midway between Horse Thief and Toby creek. In addition to the usual buildings, such as hotels, stores, postoffice, etc., it contains a Government telegraph office, Court house, Mining Recorder's office and a hospital with a resident doctor.

Athalmer is situated at the foot of Windermere lake, and Canterbury a mile up it on the west side, while Windermere is beautifully situated about half way up on the east side of the lake.

HUNTING.

For those so inclined there are trout to be caught in every stream, and deer, bear, sheep and goat are to be had in the hills. In the fall there is good duck and geese hunting in low-lying lands and reed meadows along the river. In slack times the farmer can combine prospecting with hunting and take a trip in the hills lying just beyond the bench lands.

FUTURE TRANSPORTATION.

There is good reason to believe that the railway, now surveyed, will shortly be built from Golden through the valley to the Crow's Nest Ry. This will give a great impetus to the industries of the valley, and will bring the market for fruit in the Northwest within easy reach of the growers.

OPPORTUNITIES.

Few place offer such opportunities of securing good land at such prices as the Government and C. P. R. are now offering land for sale, and not even in British Columbia are there many such charming spots where a settler can so readily and so cheaply provide himself with a home, nesting among the firs and surrounded with a garden and orchard, as an ideal home should be.

Divine service is held every Sunday evening in St. Peter's Church, Windermere, at 7:30 p.m. All are welcome.

Rev. Mr. E. St. G. Smyth will conduct divine service in Wilmer in the evening of the first Sunday of each month.

Rev. Fraser will conduct services every Sunday in Windermere at 11 a. m. Athalmer at 3 p. m. and Wilmer at 8 p. m., excepting the first Sunday in each month, when he holds services at Galena.

The latest application of wireless telegraphy is providing a burglar alarm for safes. Successful experiments have been made by a firm of British safe builders. The usefulness of the ordinary electric burglar alarm is impaired by its uncertainty and the possibility of the expert burglar being able in many cases to circumvent their operation by clever manipulation. With an efficient wireless system, it is claimed that tampering so

as to destroy its efficiency would be impossible. When the safe is opened waves are radiated which coming in contact with the usual coherer at some distant central point, rings a bell. The battery and induction coil are contained within the safe, and the whole of the safe is so charged with electricity that it gives a slight disconcerting shock to anyone who touches it.

The OUTCROP is on sale at A. R. Yates Drug Store, Wilmer.

For Sale.—Several tons of prairie Timothy Hay baled at \$20 per ton. Apply to ALFRED H. MITCHELL, Brisco.

Notice.—The postponed Annual Meeting of the Windermere Rifle Association will be held in the Windermere Hotel on Thursday evening, the 30th inst., at 8 o'clock.

OUR ORE SHIPMENTS

The Paradise shipped from 1st April, 1901, to 31st Dec., 1904, 1998.2 tons gross weight. The gross value of the metals, without smelter deductions, being \$89,809.74.

The last shipment from the Tecumseh was 42,330 pounds for which the smelter returns show that the gross value was \$1,500.88, without the lead bounty.

Mine	Tons.
Paradise	1,998.2
" " In transit	60
Delphine	162.5
" " In transit	80
*Ptarmigan Mines	165
" " in transit	
*Swansea	2
White Cat	1
Silver Belt	14
M. T. Fraction	34
Bunyan	16
Pretty Girl	6
Tecumseh	31½
*Estimated.	

Capt. H. T. Munn, of Wilmer, will stand This Season the

4-YEAR-OLD
Clyde Stallion,
"Prince
Albert"

(By Imp. "Auldmanir" dam Imp. "Leila")
at his ranch at

WILMER,
to a limited number of mares.

For Coughs and Colds

HAT are so
troublesome at
his time of
the year
AKE

Compound Syrup of White Pine

FOR SALE AT

A. R.
YATES'

Drug
Store,

WILMER, B. C.

ELECTRIC SMELTING

How the New Process Operates and With One Heat Smelts the Various Metals.

The Outcrop is again indebted to Mr. M. McDonald, the successful Calgary promoter, for a lot of information regarding the new process of electric smelting, which promises to make great changes in the mining industry. From "Little Mac's" information we extract the following, and as the subject is interesting we will give further extracts next issue:

To practically illustrate the working of this electric furnace, let us take copper, lead and zinc just as it comes from the mines without being separated, and charge it in the opening in the front of the furnace until filled up two-thirds from the bottom to the door, leaving the other one third for the flux. The current is then applied and the temperature in the furnace proper is raised to about 900 degrees F. The air blower is now turned on, allowing the air to pass through the retort into the furnace proper, making the combustion of oxygen, hydrogen, and gases, which separates the sulphur. A pipe is let down from the roof of the building and attached to a hole in the door of the furnace, conveying the sulphur away. The sulphur may be delivered in dry form by passing the sulphur fumes through lead coils, which form a cooling device. The sulphur thus separated from the ore is pure because the heating of the furnace with electricity does away with coal and prevents any ashes and other impurities from mixing with the sulphur. Heretofore the expense of separating the sulphur from the ore has been greater than the sulphur was worth and was a total loss; but with the Hatch Electric Smelter the sulphur can be saved in dry form as a by-product, because the same heat which carries off the sulphur is used to separate it from the ore itself. If desired, sulphuric acid may be made instead of sulphur by passing the sulphur fumes from the furnace through the necessary converters. This process converts sulphur into sulphuric acid instead of dry sulphur, at a minimum cost.

After the sulphur is removed, the door in the front of the furnace is opened, and flux for the lead is charged. Closing the door we increase the current and raise the temperature in the furnace proper to 1,500 degrees F. This melts and fluxes the lead, but the temperature is still too low to vaporize the zinc. The smelted lead is then drawn off through the tap hole at the bottom of the front of the furnace. The blower is now disconnected from the furnace and the opening caused by this disconnection is filled with hard coal cinders, allowing the gases, but not the vapor from the zinc, to escape. Making the furnace air tight,

additional current is turned on, raising the temperature to 1,800 degrees F. At this temperature the zinc vaporizes, forming a pressure, which forces the gases and vapor through a false head into the retort. This retort being cooler than the furnace proper, the zinc vapor condenses and the zinc is drawn off at the rear end. Through the door in the front of the furnace the required amount of flux for the copper is then charged. The temperature increased from 2,200 to 2,500 degrees F., melting and fluxing the copper. Through another tap the copper is drawn off.

The slag which is gathered during the operation of separating the lead, zinc and copper will follow, and by using sand a trench is made, known in smelting parlance as a "sow", which allows the slag to run off in a separate channel. The copper, lead, zinc and sulphur have now been separated, practically doing four processes in one. Had this ore contained gold and silver (and nearly all sulphide ores do), the fusing point being so near that of copper, the gold, silver and copper would have all come off together in the form of a mat. The ordinary method of treating these ores necessitates the separation of one at a time, roasting each ore independent of the other, as well as separating the sulphur from each ore before separating the ore from one another, making five processes besides the separating process.

The Hatch Electric smelter in one process separates the sulphur from the five ores, delivering the lead and zinc distinct and the copper, silver and gold in one heat.

In case this furnace is used for gold alone, there are two tap holes, one above the other, and by drawing the slag off through one tap the gold is left in the bottom of the furnace, thus enabling the furnace to be continually charged and operated for several days before drawing off the gold.

WANTED A LOCAL SALESMAN

For Wilmer and Surrounding Country to Represent

CANADA'S GREATEST NURSERIES'

Newest varieties and specialties in Hardy Fruits, Small Fruits, Shrubs, Ornamentals and Roses.

A permanent situation, and territory reserved for the right man. Pay weekly. Handsome outfit free. Write for particulars, and send 25 cents for our pocket microscope, just the thing to use in examining trees and plants for insects.

STONE & WELLINGTON,

FONTHILL NURSERIES,
(Over 800 acres.)

TORONTO,

ONTARIO

Canadian Pacific Railway Company, Land Department for British Columbia.

The Canadian Pacific Railway Company owns large areas of choice Agricultural Lands in the Kootenay and Boundary Districts of British Columbia, which are offered for sale at from \$1.00 to \$5.00 per acre, on easy terms of payment.

Timber leases can also be obtained on reasonable conditions.

For maps and further particulars apply to the following local land agents:—

V. HYDE BAKER, Cranbrook,
R. R. BRUCE, Wilmer,
I. H. WILLSON, Wardner,

H. & M. BIRD, Nelson
J. A. McCALLUM, Grand Forks,
E. MALLANDAIN, Jr., Creston,

W. M. FROST, Gateway, Mon.

or to J. S. DENNIS, B.C. Land Commissioner, C.P.R. Co., Calgary, Alberta

NOTICE.

Parties cutting timber or wood on the lands of this Company without authority will be prosecuted.

Special Attention to the Mining Trade.
All Home Comforts.

The HOTEL DELPHINE.....

WILMER, B.C.

Being in direct route to Toby and Horse Thief Creeks it is the Headquarters of all Mining Men.

A Table that is always Replete with the Choicest Seasonable Viands.

Rooms: Large, Airy and Comfortable.

G. A. STARKE, Prop.

COME HOME FATHER

Father, dear father, come home with me
now,
For mother is out to the club;
You said you were coming right home
from your work

To get the dear children come grub.
The cook has gone out; her club also
meets;
The janitor's gone on a spree;
And poor brother Bennie has swallowed
a nail,
And no one to help him but me.

Father, dear father, come home with me
now,
There's scrubbing and sweeping to do;
While mother is solving the problems of
state
The children are crying for you.
The socks must be darned, the patches
tacked on,
The beds must be turned back to air;
And mother's shirtwaist must be ironed
tonight
Or she will have nothing to wear.

Father, dear father, come home with me
now;
It's lonely without any man;
And mother will grieve when she comes
from the club
If things are not fixed speck and span.
Don't swear, dear papa, it isn't polite;
The children in hearing might be;
So let business slide, for dear mother you
know,
Might bring home a few friends to tea.
Dreamer, in Cranbrook Herald.

Seven years ago today the Cranbrook
Herald issued its first number. Then
there were no business houses here, two
hotels, a blacksmith shop and a livery
stable. The town has grown and the
Herald has grown. Both will grow con-
siderably more in the next few years.—
Herald. Success to "The Old Man" and
the town he has materially helped to
build.

LAND NOTICE

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase eighty acres of land. Commencing
at a post on the north side of Toby creek, about
160 chains below Jumbo Fork; thence north
40 chains, thence east 40 chains, thence south
40 chains, thence west 40 chains to the place of
commencement.
Dated 20th December, 1904. M. CARLIN.

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase 40 acres of land. Commencing at a
post south of Toby creek and on the east line
of M. Carlin's application; thence north 20
chains, thence east 20 chains, thence south 20
chains, thence west 20 chains to the place of
commencement.
Dated 20th December, 1904. H. W. HARRISON.

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase 30 acres of land. Commencing at a
post on the north side of Toby creek, about
one-half mile below Jumbo Fork; thence north
20 chains, thence east 20 chains, thence south
20 chains, thence west 20 chains to the place of
commencement.
Dated 20th December, 1904. F. W. JONES.

NOTICE

Notice is hereby given that within 60 days
after date I intend to apply to the Chief Com-
missioner of Lands and Works for permission
to purchase 36 acres of land, more or less. Com-
mencing at a post on the north side of Toby
creek, and on the east line of F. W. Jones' ap-
plication; thence north 20 chains, thence east
40 chains, thence south 40 chains to Toby
creek, thence westerly along Toby creek about
42 chains to place of commencement.
Dated 20th December, 1904. J. F. MANNA.



Anyone sending a sketch and description may
quickly ascertain our opinion free whether an
invention is probably patentable. Communi-
cations strictly confidential. Handbook on Patents
sent free. Oldest agency for securing patents.
Patents taken through Munn & Co. receive
special notice, without charge, in the
Scientific American.
A handsomely illustrated weekly. Largest cir-
culation of any scientific journal. Terms, \$1 a
year; four months, \$1. Sold by all newspapers.
MUNN & Co. 361 Broadway, New York
Branch Office, 627 E. St., Washington, D. C.

W. L. HOUSTON, Undertaker.

Coffins and Caskets always on hand.

Sash & Door Factory and
Machine Shop.

Engine and Boiler Repairing a Specialty.

GOLDEN, B. C.

Canadian Pacific Railway

Trains pass Golden:

Eastbound 11:30
Westbound 11:23

Steamers leave Golden for the Winder-
mere at 4 a.m. Tuesdays and Fridays,
returning Wednesdays and Saturdays.

Stage for Windermere District leaves
Golden at 8 o'clock Sundays and arrives
in Golden at 15:30 on Fridays. Leaving
Windermere every Thursday at 8 a.m.
and arriving Monday at 17 p.m.

Passengers booked to all Eastern Can-
adian and United States points.

Berths reserved on Atlantic steamers
for passengers to the Old Country.

Direct steamer service from Vancouver
to
**China, Japan,
Australia, Alaska**

Full information and Illustrated Pam-
phlet furnished on Application.

C. E. WELLS, E. J. COYLE,
Agent, Golden, B.C. A.G.P.A.,
Vancouver

Printing.

"That's Our Business"

The Job Department of the The Outcrop is fully
equipped to turn out the best quality of Stationery for
any kind of business. Special attention paid to work
for mines. Stock, the best; quality, the highest grade.

ADDRESS,

The Outcrop.

The W. M. Co.

A SPRING SUIT IS SEASONABLE

We have Newest Patterns
and will make you a suit that
will satisfy in

PRICE,
FIT,
APPEARANCE.

Wilmer
Mercantile
Company.

GEO. REHDER, - - Manager.